



ALAMEDA COUNTY CONGESTION MANAGEMENT AGENCY

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Memorandum

*October 12, 2009
Agenda Item 5.2*

Date: October 4, 2009

To: **Sunol Express Lane Joint Powers Authority**

From: Ray Akkawi, Manager of Project Delivery

Subject: I-680 Express Lane Project: Status Update – HOV/ HOT Lane

Action

Attached for the Board's review and information is the status update for the I-680 Express Lane project – Electronic Toll System. The CMA is the sponsor of the HOT element of the I-680 Express Lane. However, the construction phase of the civil elements of this project is administered by Caltrans. The status report covers all activities through September 30, 2009.

Background

The 14 mile I-680 Express Lane extends from Highway 84 in the City of Pleasanton to Highway 237 in the City of Milpitas. The project will widen the existing facility to allow the conversion of the HOV lane to Express (HOT) Lane. When the express lane is opened it will allow carpools to travel free of charge and would charge a toll for single occupancy vehicles to use the excess capacity in the High Occupancy Toll (HOT) lane. The scope of the project consists of two elements; the Civil Element, widening to accommodate HOT; and the Electronic Toll System Element that includes the Dynamic Pricing.



**I-680 HOV/EXPRESS LANE PROJECT
HOV / HOT Civil Elements
Status Report
For
September, 2009**

PROJECT DESCRIPTION

The existing southbound High Occupancy Vehicle (HOV) lane from Stoneridge Drive in Pleasanton to just south of Calaveras Boulevard (SR 237) in Milpitas will be improved, rehabilitated, and converted to a High Occupancy Toll (HOT) lane as part of the Southbound I-680 Smart Carpool Lane Project. The California Legislature under AB 2032 and the Federal Highway Administration (FHWA) authorized this conversion as a pilot project to improve travel efficiency in the corridor and provide more options to individual travelers.

Under the HOT lane concept, transit users, carpoolers, motorcycles and selected other eligible vehicles will continue to use the HOT Lane for free. Solo drivers who want a more convenient and reliable trip can choose to use the SMART Lane for a fee. The fee that is charged will vary depending upon the traffic conditions in both the SMART Lane and the mixed flow (MF) lanes. Based upon the state legislative authority and HOT lane concept, the conversion consists of two primary components Roadway Enhancements and Integration.

SUMMARY STATUS

The project is split into six (6) contracts:

CONTRACT #1 - HOV/HOT Lane & Rehabilitation, from Grimmer Boulevard to Route 238. This contract is under construction and is 65% completed.

CONTRACT 2 - HOV/HOT Lane & Rehabilitation, from Route 238 to Stoneridge Avenue. This contract is under construction and is 34% completed.

CONTRACT 3 - HOV/HOT Lane & Rehabilitation, from Route 237 to Grimmer Boulevard and Striping to Route 84. This contract is under construction and is 48% completed.

CONTRACT 4 - HOT Integration, INTEGRATION is being designed.

CONTRACT 5 – Landscaping and CONTRACT 6 – Mitigation are currently being designed.

Contract 1, 2, and 3 are administered by Caltrans. The work involves with these three contracts include freeway widening, structure widening, retaining walls, crack and seat and overlay of existing roadway, ramp metering. The planned HOT facility will consist of a standard HOV lane

separated from the general purpose lanes by a striped buffer accompanied by appropriate signing. Contract No. 4, Integration, will be administered by ACCMA.

CONTRACT AND CONSTRUCTION STATUS

Contract Status:

Contract No. 1, 04-253794, was awarded to Bay Cities Paving and Grading Inc. by Caltrans on September 2, 2008 in the amount of \$38,830,000. The contract work started on October 6, 2008 and the estimated contractual completion date is August 14, 2009. However, due to change orders and adverse weather impact, the revised estimated completion date is December 31, 2009.

Contract No. 2, 04-4A5204, was awarded to Bay Cities Paving and Grading Inc. by Caltrans on April 17, 2009 in the amount of \$41,700,750. The contract work started on May 11, 2009 and the estimated contractual completion date is March 16, 2010. However, due to approved contract change orders, the revised estimated completion date is April 23, 2010. As of date, there has been no delay to the project due to adverse weather impact.

Contract No. 3, 04-253784, was awarded to Top Grade Construction Inc. by Caltrans on April 7, 2009 in the amount of \$32,860,000. The contract work started on June 2009 and the estimated contractual completion date is November 5, 2009. However, due to change orders, the revised estimated completion date is November 9, 2009.

Construction Status for Contract 1:

The Contractor has completed all the Retaining Walls (RW #2, RW #3, RW #4, RW #5, RW #6, RW #7, RW #8 and RW #8A). Mission Bridge widening has been completed and the falsework have been removed. Furthermore, Contractor has completed the soil nail wall between Palm Avenue overcrossing and Washington Blvd overcrossing. The sign structures have been installed. Work on the electrical and the electronic toll system continues.

Listed below are some of the construction activities for Contract 1:

- ☐ Complete forming and pouring the stem wall of the Retaining Wall #2.
- ☐ Started drainage work in front of Retaining Wall #2.
- ☐ Started placing LCB in the front of Retaining Wall #2 widening.
- ☐ Completed placing placement of pervious backfill in front of Retaining Wall #2.
- ☐ Continue to place structural backfill at Retaining Wall #2.
- ☐ Placed structural backfill at footing of the existing column bents.
- ☐ Crack and Seat on the mainline.
- ☐ Removed
- ☐ Traffic switch at the Washington on ramp to provide room for Stage 1 Phase 3 work.
- ☐ Perform stage III work at the Washington on and off ramp.
- ☐ Started installing fence on top of Retaining Wall #3 and #4.
- ☐ Placed asphalt concrete, final lift, at the Mission on ramp.
- ☐ Continue the electrical work at various locations.

Major Construction Activities Scheduled for Next Month:

- ❑ Start constructing median concrete barrier.
- ❑ Start placing asphalt concrete on the mainline.
- ❑ Complete placement of structural backfill at Retaining Wall #2.
- ❑ Complete placing aggregate subbase, LCB and asphalt concrete in front of Retaining Wall #2.
- ❑ Complete installing fence on top of Retaining Wall #3 and #4.
- ❑ Construct the Gantry foundation for the ETS.
- ❑ Construct foundations for DMS Signs.
- ❑ Install metal beam guardrail at various locations on the job.
- ❑ Continue the electrical work at various locations.

Construction Status for Contract 2:

The Contractor has completed Retaining Wall #10 and soil nail wall (Retaining Wall #11). Concrete has been placed on the deck of the Vargas Bridge widening. Widening at the Paloma off ramp has been completed. Furthermore, Contractor has completed the crack and seat. Work on the electrical and the electronic toll system continues.

Major Construction Activities this Month:

- ❑ Placed concrete at stem and soffit and deck, Vargas Road Bridge widening.
- ❑ Placed reinforcement steel for the face wall (shotcrete) at Retaining Wall #9.
- ❑ Continue placing structural backfill at Retaining Wall #12.
- ❑ Performed drainage work in front of Retaining Wall #12.
- ❑ Continue to form and pour the stem wall of Retaining Wall #13.
- ❑ Continue placing lagging at the Retaining Wall #14.
- ❑ Repair the slide at the Retaining Wall #14.
- ❑ Started excavation of the footing, Retaining Wall #16 and #17.
- ❑ Form and pour the footing of Retaining Wall #18.
- ❑ Place reinforcement steel at the stem wall of Retaining wall #19.
- ❑ Continue to perform electrical work at various locations.

Major Construction Activities Scheduled for Next Month:

- ❑ Prestress the Vargas Bridge widening.
- ❑ Placed the Soil Nail face wall (shotcrete), Retaining Wall #9.
- ❑ Complete placing structural backfill at Retaining Wall #12.
- ❑ Complete form and pour the stem wall of Retaining Wall #13.
- ❑ Place structural backfill at Retaining Wall #13.
- ❑ Form and pour the footings of Retaining Wall #16 and #17.
- ❑ Footing excavation of Retaining Walls #15.
- ❑ Form and pour the stem wall, Retaining Wall #18.
- ❑ Form and pour the stem wall, Retaining Wall #19.
- ❑ Continue to perform electrical work at various locations.

Construction Status for Contract 3:

The Contractor has completed Retaining Walls SB-1 and SB-3A. Contractor has constructed falsework for (Warren, North DWR, South DWR, Jacklin and Calaveras) Bridge widening. Foundations for DMS Sign structures have been constructed. Crack and seat on the mainline has

been completed. Furthermore, Contractor has placed asphalt concrete from Grimmer to Scotts Creek except the final lift. Work on the electrical and the electronic toll system continues.

Major Construction Activities this Month:

- ❑ Placed structural backfill at the Retaining Wall SB-3A.
- ❑ Started construction of falsework at East Warren Bridge widening.
- ❑ Placed structural backfill at the Retaining Wall SB-1, except the extension (CCO).
- ❑ Continue drainage work in the median and in front of Retaining Walls SB-3A and SB-1.
- ❑ Demo the existing barrier rail, form and pour the stem and soffit at North DWR Bridge widening.
- ❑ Started placing reinforcement steel at the deck of North DWR Bridge widening.
- ❑ Completed construction of falsework at the South DWR Bridge widening.
- ❑ Continue to excavate, form and pour the catcher bents footing at the South DWR widening.
- ❑ Complete the bents and abutment walls and start the construction of falsework at Calaveras Bridge widening.
- ❑ Complete the bents and abutment walls and start the construction of falsework at Jacklin Bridge widening.
- ❑ Placed Class 4 aggregate subbase at the widening from Scotts Creek to Jacklin.
- ❑ Continue electrical work at various locations.

Major Construction Activities Scheduled for Next Month:

- ❑ Place LCB and asphalt concrete at the widening from Scotts Creek to Jacklin
- ❑ Continue to install drainage systems.
- ❑ Form and pour the stem and soffit and deck at South DWR Bridge widening.
- ❑ Form and pour the stem and soffit and deck at Calaveras Bridge widening.
- ❑ Form and pour the stem and soffit and deck at Jacklin Bridge widening.
- ❑ Place aggregate subbase, and asphalt concrete, part of widening from Warren to Scotts Creek.
- ❑ Form and pour the stem and soffit of the East Warren Bridge widening.
- ❑ Continue electrical work at various locations.

Financial Status for Contract No. 1, Contract No. 2 and Contract No. 3

This section of the report includes a review of the project construction budget.

Budget and Expenditure Summary

The Contractor has been issued several change orders as a result of changes to the Contract 1, 2 and 3.

The table below is the breakdown of the funding allocation and total expenditures to date for contract 1, contract 2 and contract 3.

ALLOCATION:

	Contract 1	Contract 2	Contract 3
HOV	\$19,890,000.00	\$16,023,107.00	\$17,900,000.00
HOT	\$6,470,000.00	\$4,918,243.00	\$2,700,000.00
SHOPP	\$12,470,000.00	\$20,759,400.00	\$12,260,000.00
Total Allotment	\$38,830,000.00	\$41,700,750.00	\$32,860,000.00

EXPENDITURES TO DATE (including Change Orders)

HOV	\$14,059,925.43	\$6,856,867.45	\$9,072,175.05
HOT	\$4,694,303.69	\$2,001,112.32	\$1,406,683.30
SHOPP	\$5,082,637.97	\$4,396,767.39	\$5,099,085.31
Total Expenditure	\$23,836,867.09	\$13,588,397.51	\$15,577,948.64
Estimated Fund Balance (Allocation – Expenditures)	\$14,993,132.91	\$28,118,888.49	\$17,282,051.36

Schedule Status

	Contract 1	Contract 2	Contract 3
Bid Opening:	August 19, 2008	December 10, 2008	December 16, 2008
Contract Award:	September 02, 2008	April 07, 2009	April 17, 2009
Total Working Days per Bid	188 Working Days	177 Working Days	92 Working Days
Time Extension due to Weather Days:	66 Working Days	0 Working Days	0 Working Days
Time Extension due to Change orders:	27 Working Days	27 Working Days	2 Working Days
Estimated Completion Date	December 31, 2009	April 23, 2010	November 9, 2009
%e Completion (Work):	65%	34%	48%

Due to approved contract change orders and adverse weather impact to contract #1, the completion date has been extended by four months from the original completion date.

Furthermore, the completion dates for contract #2 and contract #3 have been extended due to change orders.

Outstanding Issues/Disputes/Claims

Contract #1 and Contract #2, the work is progressing well and no notice of potential claim has been filed by the Contractor.

Subsequently for contract #3, Contractor has filed two notices of potential claims. However, the claims are been resolved by construction staff and the contractor.